SEQUENCE LISTING

<110> Johnson & Johnson

<120> EPITOPE TAGGED RECOMBINANT GROWTH ARREST SPECIFIC GENE 6 PROTEINS

<130> CEN-5015USNP

<150> 60/413157
<151> 2002-09-24

<160> 3

<170> PatentIn version 3.2

<210> 1
<211> 686
<212> PRT
<213> Homo sapiens

<400> 1

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Met Ala Pro Ser Leu Ser Pro Gly Pro Ala Ala Leu Arg Arg Ala Pro
1               5                  10                  15

Gln Leu Leu Leu Leu Leu Leu Ala Ala Glu Cys Ala Leu Ala Ala Leu
            20                  25                  30

Leu Pro Ala Arg Glu Ala Thr Gln Phe Leu Arg Pro Arg Gln Arg Arg
        35                  40                  45

Ala Phe Gln Val Phe Glu Glu Ala Lys Gln Gly His Leu Glu Arg Glu
    50                  55                  60

Cys Val Glu Glu Leu Cys Ser Arg Glu Glu Ala Arg Glu Val Phe Glu
65                  70                  75                  80

Asn Asp Pro Glu Thr Asp Tyr Phe Tyr Pro Arg Tyr Leu Asp Cys Ile
                85                  90                  95

Asn Lys Tyr Gly Ser Pro Tyr Thr Lys Asn Ser Gly Phe Ala Thr Cys
            100                 105                 110

Val Gln Asn Leu Pro Asp Gln Cys Thr Pro Asn Pro Cys Asp Arg Lys
        115                 120                 125

Gly Thr Gln Ala Cys Gln Asp Leu Met Gly Asn Phe Phe Cys Leu Cys
    130                 135                 140
```

```
Lys Ala Gly Trp Gly Gly Arg Leu Cys Asp Lys Asp Val Asn Glu Cys
145                 150                 155                 160

Ser Gln Glu Asn Gly Gly Cys Leu Gln Ile Cys His Asn Lys Pro Gly
                165                 170                 175

Ser Phe His Cys Ser Cys His Ser Gly Phe Glu Leu Ser Ser Asp Gly
            180                 185                 190

Arg Thr Cys Gln Asp Ile Asp Glu Cys Ala Asp Ser Glu Ala Cys Gly
        195                 200                 205

Glu Ala Arg Cys Lys Asn Leu Pro Gly Ser Tyr Ser Cys Leu Cys Asp
    210                 215                 220

Glu Gly Phe Ala Tyr Ser Ser Gln Glu Lys Ala Cys Arg Asp Val Asp
225                 230                 235                 240

Glu Cys Leu Gln Gly Arg Cys Glu Gln Val Cys Val Asn Ser Pro Gly
                245                 250                 255

Ser Tyr Thr Cys His Cys Asp Gly Arg Gly Gly Leu Lys Leu Ser Gln
            260                 265                 270

Asp Met Asp Thr Cys Glu Asp Ile Leu Pro Cys Val Pro Phe Ser Val
        275                 280                 285

Ala Lys Ser Val Lys Ser Leu Tyr Leu Gly Arg Met Phe Ser Gly Thr
    290                 295                 300

Pro Val Ile Arg Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val
305                 310                 315                 320

Ala Glu Phe Asp Phe Arg Thr Phe Asp Pro Glu Gly Ile Leu Leu Phe
                325                 330                 335

Ala Gly Gly His Gln Asp Ser Thr Trp Ile Val Leu Ala Leu Arg Ala
            340                 345                 350

Gly Arg Leu Glu Leu Gln Leu Arg Tyr Asn Gly Val Gly Arg Val Thr
        355                 360                 365

Ser Ser Gly Pro Val Ile Asn His Gly Met Trp Gln Thr Ile Ser Val
    370                 375                 380
```

```
Glu Glu Leu Ala Arg Asn Leu Val Ile Lys Val Asn Arg Asp Ala Val
385                 390                 395                 400

Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly Leu
                405                 410                 415

Tyr His Leu Asn Leu Thr Val Gly Gly Ile Pro Phe His Glu Lys Asp
            420                 425                 430

Leu Val Gln Pro Ile Asn Pro Arg Leu Asp Gly Cys Met Arg Ser Trp
        435                 440                 445

Asn Trp Leu Asn Gly Glu Asp Thr Thr Ile Gln Glu Thr Val Lys Val
    450                 455                 460

Asn Thr Arg Met Gln Cys Phe Ser Val Thr Glu Arg Gly Ser Phe Tyr
465                 470                 475                 480

Pro Gly Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro
                485                 490                 495

Leu Asp Val Gly Thr Glu Ser Thr Trp Glu Val Glu Val Val Ala His
            500                 505                 510

Ile Arg Pro Ala Ala Asp Thr Gly Val Leu Phe Ala Leu Trp Ala Pro
        515                 520                 525

Asp Leu Arg Ala Val Pro Leu Ser Val Ala Leu Val Asp Tyr His Ser
    530                 535                 540

Thr Lys Lys Leu Lys Lys Gln Leu Val Val Leu Ala Val Glu His Thr
545                 550                 555                 560

Ala Leu Ala Leu Met Glu Ile Lys Val Cys Asp Gly Gln Glu His Val
                565                 570                 575

Val Thr Val Ser Leu Arg Asp Gly Glu Ala Thr Leu Glu Val Asp Gly
            580                 585                 590

Thr Arg Gly Gln Ser Glu Val Ser Ala Ala Gln Leu Gln Glu Arg Leu
        595                 600                 605

Ala Val Leu Glu Arg His Leu Arg Ser Pro Val Leu Thr Phe Ala Gly
    610                 615                 620
```

```
Gly Leu Pro Asp Val Pro Val Thr Ser Ala Pro Val Thr Ala Phe Tyr
625                 630                 635                 640

Arg Gly Cys Met Thr Leu Glu Val Asn Arg Arg Leu Leu Asp Leu Asp
                645                 650                 655

Glu Ala Ala Tyr Lys His Ser Asp Ile Thr Ala His Ser Cys Pro Pro
            660                 665                 670

Val Glu Pro Ala Ala Ala Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685
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<213> Homo sapiens

<400> 2

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Asp Tyr Lys Asp Asp Asp Asp Lys
1               5
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<400> 3

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Met Ala Pro Ser Leu Ser Pro Gly Pro Ala Ala Leu Arg Arg Ala Pro
1               5                   10                  15

Gln Leu Leu Leu Leu Leu Leu Ala Ala Glu Cys Ala Leu Ala Ala Leu
            20                  25                  30

Leu Pro Ala Arg Glu Ala Thr Gln Phe Leu Arg Pro Arg Gln Arg Arg
        35                  40                  45

Ala Phe Gln Val Phe Glu Glu Ala Lys Gln Gly His Leu Glu Arg Glu
    50                  55                  60

Cys Val Glu Glu Leu Cys Ser Arg Glu Glu Ala Arg Glu Val Phe Glu
65                  70                  75                  80

Asn Asp Pro Glu Thr Asp Tyr Phe Tyr Pro Arg Tyr Leu Asp Cys Ile
                85                  90                  95

Asn Lys Tyr Gly Ser Pro Tyr Thr Lys Asn Ser Gly Phe Ala Thr Cys
```

```
                100                 105                 110

    Val Gln Asn Leu Pro Asp Gln Cys Thr Pro Asn Pro Cys Asp Arg Lys
5           115                 120                 125

    Gly Thr Gln Ala Cys Gln Asp Leu Met Gly Asn Phe Phe Cys Leu Cys
        130                 135                 140
10
    Lys Ala Gly Trp Gly Gly Arg Leu Cys Asp Lys Asp Val Asn Glu Cys
    145                 150                 155                 160

15
    Ser Gln Glu Asn Gly Gly Cys Leu Gln Ile Cys His Asn Lys Pro Gly
                    165                 170                 175

20  Ser Phe His Cys Ser Cys His Ser Gly Phe Glu Leu Ser Ser Asp Gly
                180                 185                 190

    Arg Thr Cys Gln Asp Ile Asp Glu Cys Ala Asp Ser Glu Ala Cys Gly
25          195                 200                 205

    Glu Ala Arg Cys Lys Asn Leu Pro Gly Ser Tyr Ser Cys Leu Cys Asp
        210                 215                 220
30
    Glu Gly Phe Ala Tyr Ser Ser Gln Glu Lys Ala Cys Arg Asp Val Asp
    225                 230                 235                 240

35
    Glu Cys Leu Gln Gly Arg Cys Glu Gln Val Cys Val Asn Ser Pro Gly
                    245                 250                 255

40  Ser Tyr Thr Cys His Cys Asp Gly Arg Gly Gly Leu Lys Leu Ser Gln
                260                 265                 270

    Asp Met Asp Thr Cys Glu Asp Ile Leu Pro Cys Val Pro Phe Ser Val
45          275                 280                 285

    Ala Lys Ser Val Lys Ser Leu Tyr Leu Gly Arg Met Phe Ser Gly Thr
        290                 295                 300
50
    Pro Val Ile Arg Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val
    305                 310                 315                 320

55
    Ala Glu Phe Asp Phe Arg Thr Phe Asp Pro Glu Gly Ile Leu Leu Phe
                    325                 330                 335

60  Ala Gly Gly His Gln Asp Ser Thr Trp Ile Val Leu Ala Leu Arg Ala
```

340 345 350

Gly Arg Leu Glu Leu Gln Leu Arg Tyr Asn Gly Val Gly Arg Val Thr
355 360 365

Ser Ser Gly Pro Val Ile Asn His Gly Met Trp Gln Thr Ile Ser Val
370 375 380

Glu Glu Leu Ala Arg Asn Leu Val Ile Lys Val Asn Arg Asp Ala Val
385 390 395 400

Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly Leu
405 410 415

Tyr His Leu Asn Leu Thr Val Gly Gly Ile Pro Phe His Glu Lys Asp
420 425 430

Leu Val Gln Pro Ile Asn Pro Arg Leu Asp Gly Cys Met Arg Ser Trp
435 440 445

Asn Trp Leu Asn Gly Glu Asp Thr Thr Ile Gln Glu Thr Val Lys Val
450 455 460

Asn Thr Arg Met Gln Cys Phe Ser Val Thr Glu Arg Gly Ser Phe Tyr
465 470 475 480

Pro Gly Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro
485 490 495

Leu Asp Val Gly Thr Glu Ser Thr Trp Glu Val Glu Val Val Ala His
500 505 510

Ile Arg Pro Ala Ala Asp Thr Gly Val Leu Phe Ala Leu Trp Ala Pro
515 520 525

Asp Leu Arg Ala Val Pro Leu Ser Val Ala Leu Val Asp Tyr His Ser
530 535 540

Thr Lys Lys Leu Lys Lys Gln Leu Val Val Leu Ala Val Glu His Thr
545 550 555 560

Ala Leu Ala Leu Met Glu Ile Lys Val Cys Asp Gly Gln Glu His Val
565 570 575

Val Thr Val Ser Leu Arg Asp Gly Glu Ala Thr Leu Glu Val Asp Gly

```
                580                 585                 590

    Thr Arg Gly Gln Ser Glu Val Ser Ala Ala Gln Leu Gln Glu Arg Leu
5           595                 600                 605

    Ala Val Leu Glu Arg His Leu Arg Ser Pro Val Leu Thr Phe Ala Gly
        610                 615                 620
10
    Gly Leu Pro Asp Val Pro Val Thr Ser Ala Pro Val Thr Ala Phe Tyr
    625                 630                 635                 640

15
    Arg Gly Cys Met Thr Leu Glu Val Asn Arg Arg Leu Leu Asp Leu Asp
                    645                 650                 655

20  Glu Ala Ala Tyr Lys His Ser Asp Ile Thr Ala His Ser Cys Pro Pro
                660                 665                 670

    Val Glu Pro Ala Ala Ala
25          675
```